## ESSUE SLIP STAPLE AP 7/ (for additional cross references)

| POSITION            | INITIALS | ID NO. |   |     | DA  | re  |
|---------------------|----------|--------|---|-----|-----|-----|
| FEE DETERMINATION   | m        | 71530  |   | 199 | 3   | 99  |
| O.I.P.E. CLASSIFIER |          |        | 5 | 98  | 90  |     |
| FORMALITY REVIEW    | EV15     | 66783  |   | 0.4 | 117 | 144 |

## INDEX OF CLAIMS

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

| C        |     | m           |                                              | _  |           |          | _  | _[           | Dat | 9 | _        |   |          |         | J        | C        | aim      | Ш. |          |          |              | Da       | te       |                                                  |          |          |          | Cla           | im       |                                                   |         |          |        | Dat           | te       | _        |          | _        | _ |
|----------|-----|-------------|----------------------------------------------|----|-----------|----------|----|--------------|-----|---|----------|---|----------|---------|----------|----------|----------|----|----------|----------|--------------|----------|----------|--------------------------------------------------|----------|----------|----------|---------------|----------|---------------------------------------------------|---------|----------|--------|---------------|----------|----------|----------|----------|---|
|          |     | 쿌           | g                                            | J  | H         | Ý        | ł  | Τ            |     |   | Γ        | Т |          | Τ       | 1        | [        | Ī        |    | Ī        | Γ        | Γ            |          | Г        |                                                  |          |          |          |               | ᇴ        | Т                                                 |         |          |        | Ē             | $\Box$   | Γ        | П        | Г        | Τ |
| 1        |     | 충           | 9                                            | ₫. | H         | 6        | Ì  |              |     |   |          |   |          |         |          | E        | Original | •  |          |          |              |          | ĺ        |                                                  |          |          |          | 뎚             | Original |                                                   |         |          |        |               |          | ŀ        |          |          | l |
| Ī        | 1   | Ŏ           | Ľ                                            | 1  | Ż         | ۲        | ╁╴ | †            |     |   | H        | ✝ | +        | ╁       | ┨        | ٣        | 5        | +  | +        | ┢        | ├-           | ╁        | ┢        | +-                                               | H        | ۳.       | -        |               | 101      | +                                                 | -       | Н        | _      | -             | ⊢        | ├-       | H        | ⊢        | ╀ |
| 1        | i   | 2           | ٦,                                           | 1  | Ħ         | 1        | †÷ | $^{\dagger}$ | _   | Т | Т        | + | +        | +       | 1        | $\vdash$ | 52       |    | ✝        | +-       | 1            | ┢        | ╁        | <del>                                     </del> | $\vdash$ | $\vdash$ | Н        | -             | 102      | -+                                                | -       | Н        | _      | -             | ⊢        | ╌        | ⊢        | ┢╼       | + |
| 7        | ij  | 3           | П                                            | T  | Ħ         | 1        | T  | Ť            |     |   | ✝        | 1 | +        | ╅       | 1        | $\vdash$ | 53       |    | ┿        | $\vdash$ | H            | ╁        | $\vdash$ | <del>                                     </del> | H        | Η.       | $\vdash$ | $\vdash$      | 103      | +                                                 | -       | $\dashv$ | _      |               | H        | ╀╌       | Н        | ┢        | ł |
| 4        | 7   | 4           | Н                                            | t  | H         | †        | t  | †            |     | _ | T        | t | 十        | +       | 1        | $\vdash$ | 54       | •  | $\vdash$ | ╁╴       | ┢            | $\vdash$ | 1        | ┢                                                | ┢        | -        | $\vdash$ | -             | 104      | +                                                 | -       | Н        | _      | -             | ₩        | ⊢        | Н        | ⊢        | 1 |
| 2        | 3   | 5           | П                                            |    | П         | T        | T  | 1            |     |   | Т        | Т | T        | 1       | 1        | Т        | 5        |    | T        |          |              | 1        | 1        | 1                                                | ┢        | _        | H        | $\vdash$      | 105      | +                                                 | ┪       | $\vdash$ | _      | $\vdash$      | Н        | ┢        | H        | ⊢        | ł |
| Ġ        | 7   | 6           | 7                                            | Т  | П         | T        | Т  | 1            |     |   | Τ        | Ť | T        | T       | 1        |          | 56       | 3  | †        | T        | T            | 1        | $\vdash$ | $\vdash$                                         | _        | _        | $\dashv$ |               | 106      | +                                                 | ٦       | Н        | _      | -             | Н        | ┢        | $\vdash$ | ╁╾       | 1 |
|          | 7   | 7           | Π                                            | Τ  | П         | Τ        | Г  | T            |     |   |          | T | Τ        | T       | 1        |          | 57       | 7  | 1        | Т        | t            |          |          | 1                                                | $\vdash$ |          | $\dashv$ |               | 107      | +                                                 | ┪       | $\vdash$ | -      | $\vdash$      | ┰        | ┰        | ╁        | ╁╌       | 1 |
| 4        | 1   | 8           | $\Box$                                       | Ι  |           | Τ        | Γ  | I            |     |   |          | 1 | T        | 1       | 1        | $\Gamma$ | 58       | 1  |          |          |              | T        |          | 1                                                | $\vdash$ |          | $\neg$   |               | 108      | +                                                 | 7       | $\dashv$ | _      |               |          | ┢        | $\vdash$ | ┢        | 1 |
| q        |     | 9           | Π                                            | Π  | $\exists$ | Τ        |    | Ι            |     |   |          | Т | Т        | T       | 1        | Г        | 59       | 1  | 1        | T        | $\vdash$     | $\vdash$ | $\vdash$ | T                                                | Г        | Т        | $\dashv$ |               | 109      | 1                                                 | ┪       | $\Box$   | _      | ┢             | т        | ╁╌       | ┪        | ┢        | 1 |
| Q        |     | 10          |                                              | П  |           | Γ        | Γ  | Ι            |     |   | $\Gamma$ | Г | Т        |         | 1        | Г        | 60       | 7  | Г        |          |              | Г        |          | T                                                |          | _        | $\neg$   |               | 110      | 7                                                 | ┪       | $\vdash$ | _      |               | Т        | _        | Н        | ┢        | 1 |
| ı        |     | 11          | Ι                                            | Ц  |           | Ι        |    | Ι            |     |   |          | Ι | Т        | Т       | 1        |          | 6        |    | Т        | П        |              |          | Г        | T                                                | П        |          | $\neg$   |               | 111      | 寸                                                 | ┪       |          |        | $\vdash$      |          | 1        |          | H        | 1 |
| ī        | ŀ   | 2           |                                              | П  |           | 1        |    |              |     |   |          | Ι | Τ        | Т       | ]        |          | 62       |    | Г        |          |              |          | Π        | T                                                | П        |          |          |               | 112      | 十                                                 | ┪       |          |        |               |          | 1        | $\vdash$ | ┢        | 1 |
| 'n       |     | 3           | Ц                                            | Ц  | Ц         | ⊥        | L  | ⊥            |     | _ | L        | L | L        | Ι       | ]        |          | 63       | _  |          |          |              |          | Π        | Г                                                |          |          |          |               | 113      | T                                                 | ╗       |          |        | $\overline{}$ |          | Г        |          |          | 1 |
| 4        |     | 14          | Ц                                            | Ц  | Ц         | 1        | L  | ⊥            | _   |   | L        | L | L        |         | ]        |          | 64       |    |          |          |              |          |          | ]                                                |          |          | $\Box$   | $\Box$        | 114      | 7                                                 | ╗       |          | _      | $\Box$        | $\Box$   | Г        | П        | Г        | - |
| 5        |     | 5           | 4                                            | L  | Ц         | 1        | L  | 1            |     | _ | L        | L |          | $\perp$ | ].       |          | 65       |    |          |          |              |          |          |                                                  |          |          |          |               | 115      | T                                                 |         | T        | _      |               | П        | Г        |          | Г        | 1 |
| Ļ        |     | В           | Т                                            | Ц  | Ц         | L        | L  | 1            | _   |   |          |   |          | $\perp$ | ]        |          | 66       |    |          |          | 1_           |          |          |                                                  |          |          |          |               | 116      |                                                   |         |          |        |               | $\sqcap$ | $\vdash$ | П        | Г        | • |
| 1        |     | 17          | 1                                            | L  | Ц         | Ļ        | L  | 1            | Ц   |   | L        | L | ⊥        |         | ]        | L        | 67       | _  |          |          | L            |          |          |                                                  |          |          |          |               | 117      |                                                   |         |          |        |               | $\Box$   |          | П        | $\vdash$ | • |
| ť        | 9   | B           | 1                                            | L  | 4         | <u>万</u> | L  | ⊥            |     |   | L        | L | ┸        | 上       | 1        |          | 68       | -  |          |          |              |          |          |                                                  |          |          |          |               | 118      | 1                                                 | ╗       |          |        | П             | Г        |          | Г        | Г        |   |
| _        | 2   |             | L                                            | L  | ┙         |          | L  | L            |     | _ | 乚        | L | ⊥.       |         |          |          | 69       |    |          | <u> </u> |              |          |          |                                                  |          |          |          |               | 119      |                                                   |         | П        |        |               |          |          |          | Г        | • |
|          | ŀ   | Þ           | L                                            | L  | 1         |          |    |              |     |   | 1        |   | 1        |         | 1        |          | 70       |    |          | Ţ        | Г            |          | Г        | Г                                                |          |          |          |               | 120      | ╗                                                 | ٦       | 一        |        | $\neg$        | $\sqcap$ |          | П        | Г        | 1 |
|          | ľ   | 4           | L                                            | Γ  | Ι         |          | Γ  | Τ            |     |   |          | Γ | Т        | T       | 7        | Г        | 71       |    | Т        | Г        |              | $\vdash$ |          |                                                  | П        |          | 7        |               | 121      | 十                                                 | 7       | 寸        |        | Н             | М        | ┢        | H        | ┢        | 1 |
|          | 1   | Ł           | L                                            | L  |           |          |    |              |     |   |          |   | Ι        | Ι       | ]        |          | 72       |    |          | Г        | Г            |          | Г        |                                                  |          |          | $\neg$   |               | 122      | _                                                 | T       | 7        | _      | П             |          | _        | ✝        | ┢        | 1 |
| _        | Ŀ   | Ł           | L                                            | L  |           | _        |    | Ι            |     |   |          | Γ | Ι        |         | ]        |          | 73       |    |          |          |              |          | Г        |                                                  | П        |          | 1        |               | 123      | 十                                                 | 7       | _        | _      | Н             | М        | $\vdash$ |          | Н        | 1 |
| <u>۹</u> | L   | 24)         | L                                            | Ľ  | И         | 1        | L  | Ι            |     |   |          |   | Ţ        |         |          |          | 74       |    |          |          |              | Г        |          |                                                  | П        |          |          |               | 124      | 7                                                 |         |          |        | $\neg$        | Г        | $\vdash$ | Н        | $\vdash$ | 1 |
| p        | 1   | 25          | L                                            | 14 | Ц         | 1        | L  | 1            | ┙   |   | L        | L | 1        |         | ]        |          | 75       |    |          |          |              |          |          |                                                  |          |          |          |               | 125      | T                                                 | ╗       |          | _      | $\Box$        | $\sqcap$ |          | П        |          | 1 |
| Ł        | Ç   | 6           | L                                            | Ц  | 4         | 4        | L  | 1            |     |   |          | L | ┸        | 1       | ]        | $\perp$  | 76       |    |          |          |              |          |          |                                                  |          |          |          |               | 126      | 7                                                 | ٦       | Ī        | _      | П             |          |          | М        |          | 1 |
| 2        | 1   | 7           | 1_                                           | Ц  | Ц         | 4        | L  | 1            | _   |   |          | L | L        | L       | ]        | $\perp$  | 77       | -  |          |          |              |          |          |                                                  |          |          | $\Box$   |               | 127      | T                                                 | ╗       | ╗        |        | П             | $\Box$   |          | $\Box$   |          | 1 |
| 3        |     | 28          | 1                                            | L  | Ц         | 1        | L  | ┸            | _   |   | 上        | ┖ |          | L       | <u> </u> | $\perp$  | 78       | 1  | L        |          |              |          |          |                                                  |          | _]       |          |               | 128      |                                                   | ╗       | ╗        |        | П             |          |          | П        | Г        | 1 |
| Δ        |     | 29          | 1                                            | Ц  | Ц         | 1        | L  | 1            | _   | _ | L        | L | ┸        | ┸       | J        | L        | 79       |    |          |          |              |          |          |                                                  |          |          |          |               | 129      | T                                                 | П       |          |        |               | П        | $\Gamma$ | П        | Г        | 1 |
| 2        |     | 30          | 1                                            | И  | 4         | 4        | L  | ⊥            | _   |   | _        | ┖ | ┸        |         | ]        |          | 80       |    |          |          |              |          |          |                                                  |          |          |          |               | 130      | Т                                                 | ٦       |          |        | $\Box$        | П        | Г        | П        |          | 1 |
| 4        | ¥   | 31          | _4                                           |    | 4         | Ļ        | L  | 1            | _   | _ | _        | ╙ | $\perp$  | *       |          | L        | 81       |    | L        |          |              |          |          |                                                  |          |          |          |               | 131      | $\top$                                            |         |          |        | П             |          | Г        |          |          | 1 |
| 4        | ĮĮ: | 2           | _                                            | Ц  | 2         | 1        | L  | 1            | _   |   | Ļ        | ┖ | L        | ┸       | 1        | L        | 82       |    |          |          |              |          | _        |                                                  |          |          |          |               | 132      | Π                                                 |         | П        |        |               | П        |          | П        | $\Box$   | 1 |
| 2        | ř   | K (2) K     | <u>)</u>                                     |    | 3         | 1        | L  | 1            | 4   |   | L        | L | ┺        | ┸       | 1        | L        | 83       |    | L        |          |              |          | _        |                                                  |          |          |          |               | 133      |                                                   |         | $\Box$   |        |               |          |          |          | Г        | 1 |
| 4        | ľ   | 끸           | <u> </u>                                     | Ц  | 4         | 1        | L  | 1            | 4   | _ | <u> </u> | L | ┺        | ┸       | 1        |          | 84       | _  | Щ        | L        | $oxed{oxed}$ |          |          |                                                  |          | _]       |          |               | 134      |                                                   |         |          |        |               |          |          |          |          | 1 |
| 0        | K   | 5<br>6<br>7 | _                                            | ₽  | 4         | 4        | L  | 4            | 4   |   | L        | _ | Ļ.       | 1       | 1        | $\vdash$ | 85       |    | <u> </u> |          |              |          |          |                                                  | Ц        |          |          |               | 135      |                                                   |         |          |        |               |          |          |          |          | 1 |
| 7        | 5   | 씜           | _                                            | Ļ  |           | 4        | L  | 1            | 4   |   | ļ        | L | ╀        | ┸       | Į        | $\vdash$ | 86       | 1. | L        |          |              |          |          |                                                  | $\Box$   |          |          |               | 136      |                                                   |         |          |        |               |          |          |          |          | Ī |
|          |     |             |                                              | 1  |           | _        | L  | 4            | 4   |   | Ļ.       | ┡ | 1        | ╄       | 1        | _        | 87       |    | <u> </u> | Ш        | L            |          | _        |                                                  |          |          | _        |               | 137      | $\perp$                                           |         |          |        |               |          |          |          |          | Ì |
| 3        | ¥   | 8           | _                                            | 1  |           | _        | L  | 4            | 4   |   | _        | L | L        | ↓_      |          | _        | 88       |    | <u> </u> | Щ        | L.,          |          | Ц.       |                                                  |          | _        |          |               | 38       |                                                   |         | $\Box$   |        |               |          |          |          |          | I |
| Ž        | Ų:  | 0           | _                                            | 1  | 2         |          | L  | 4            | 4   |   | L        | Ļ | 4        | ╀       | 1        | _        | 89       | _  | _        |          | Щ            | _        | _        |                                                  |          | _        | _        | $\rightarrow$ | 39       |                                                   | $\perp$ |          |        |               |          |          |          |          | Ī |
| 7        | Ų   | 9           | <u>ų</u>                                     |    | 1         | _        | L  | L            | _   |   | L        | L | ┸        | L.      |          |          | 90       | 1_ |          | Ш        |              |          |          |                                                  |          |          |          |               | 40       |                                                   | ╛       | - 1      | - 1    | Π             |          |          | П        |          | Ī |
| ٧        | Т   | •           | <u>_</u>                                     |    | 4         |          | L  | L            |     |   | L        | L |          | L       | J        | L        | 91       |    |          |          |              |          |          |                                                  |          |          |          |               | 141      | Ţ.                                                | Т       | $\neg$   | ٦      | П             | П        |          | П        | $\Box$   | İ |
| 1        | 1   | 2           |                                              | 1  | Ð,        |          | L  | L            |     |   | _        | L | ┸        | ┸       |          | $\perp$  | 92       |    |          |          |              |          |          |                                                  |          |          |          |               | 142      | T                                                 | T       | ┑        |        | $\neg$        | П        |          | П        |          | İ |
| ì        | ļ   |             | <u>.                                    </u> | Ŀ  | 4         | //       | L  | ⊥            | ┙   |   | L        | L | L        |         | 1        |          | 93       |    |          |          |              |          |          |                                                  |          |          |          |               | 143      | Τ                                                 | Ī       | T        |        | $\Box$        | $\neg$   | П        | $\sqcap$ | П        | t |
|          |     | 44          |                                              | L  | 1         |          | L  | 1            |     |   | L        | L | 1        | $\perp$ | ]        | L        | 94       |    |          |          |              |          |          |                                                  |          |          |          |               | 144      | Т                                                 | 1       | 7        | $\neg$ | コ             | $\neg$   |          | ⊓        | П        | t |
|          |     | 15          | _                                            | L  | 1         |          | Ĺ  | 1            | _[  |   | L        | Ĺ | Γ        |         |          |          | 95       |    |          |          |              |          |          |                                                  |          |          |          |               | 45       | $\perp$                                           | 1       |          |        | ヿ             | ╛        |          | $\sqcap$ | П        | Ì |
| _        |     | 16          |                                              | L  | 1         |          | L  | Ţ            |     |   | Ĺ        | Ĺ | Ĺ        | $\perp$ | 1        |          | 96       |    |          |          |              |          |          |                                                  |          | J        |          |               | 46       | J                                                 | 7       |          |        | ヿ             |          | П        | $\sqcap$ | П        | t |
|          | _   | 17          |                                              | L  | $\int$    |          | L  | Ţ            | ╛   |   | L        | L | L        |         | }        |          | 97       | L  |          |          |              |          |          |                                                  |          | J        |          |               | 47       | T                                                 | 1       | 7        | ٦      | $\dashv$      | $\neg$   |          | ┌┤       | П        | Ì |
| _        | _   | 8           |                                              | L  | 4         |          | L  | Ţ            |     |   |          |   | $\Gamma$ |         | 1        |          | 98       | _  |          |          |              |          |          |                                                  |          |          |          |               | 48       |                                                   |         | ╛        | _      |               | ╗        |          | ┌┤       |          | İ |
|          | _   | 9           | _                                            | Ŀ  | 4         | _        | L  | Ļ            | _   |   | L        | L | L        | 1       | 1        | $\Box$   | 99       |    |          | $\Box$   |              |          |          |                                                  |          | . 1      |          |               | 49       | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | _       | $\Box$   | _1     |               |          |          | ╗        | П        | ľ |
|          | 1   | 8           |                                              | L  |           |          |    | L            |     |   | L        | L | L        |         | ]        |          | 100      | _  |          |          |              |          |          |                                                  | Т        | - 1      | 7        |               | 50       | Т                                                 | T       | T        |        | ᅥ             | ╗        |          | $\neg$   |          | r |

If more than 150 claims or 10 actions staple additional sheet here

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